



Attorney Docket No.: 5784.210-US

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Arne Staby

Confirmation No. 6001

Application No.: 09/671,461

Group Art Unit: 1653

Filed: September 27, 2000

Examiner: Kam, Chih Min

For: Ion exchange chromatography of proteins and peptides

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. 1.56, 1.97 and 1.98, Applicants submit herewith references which they believe may be material to the patentability of this application and with respect to which there may be a duty to disclose in accordance with 37 C.F.R. 1.56.

While the references may be "material" under 37 C.F.R. 1.56, it is not intended to constitute an admission that the references are "prior art" unless specifically designated as such.

The filing of this Information Disclosure Statement shall not be construed as a representation that no material references other than those listed exist or that a search has been conducted.

The references are listed in Form PTO-1449 which is in accordance with the requirements of M.P.E.P. 609. A copy of the references is also enclosed.

The references are as follows:

1. US Patent No. 4,361,510;
2. EP 0 699 686 A2;
3. EP 0 708 179 A2;
4. WO 87/06941;
5. WO 90/11296;
6. WO 91/11457;
7. 98/08871;
8. WO 98/08872;
9. WO 96/32414

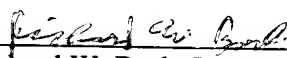
10. Schmidt et al., "Glucagon-like peptide-1 but not glucagons-like peptide-2 stimulates insulin release from isolated rat pancreatic islets" Diabetologia, Vol. 28, pgs. 704-707 (1985);
11. Kagaku et al., "Activation of Coagulation of Factor VII to VIIa Research Disclosure, pgs. 564-565 (September 1986);
12. Abstract of Japanese Patent JP 10059866; "Preparation of blood coagulation factor VII and/or activated blood coagulation factor VII-by developing solution containing factor VII with anion exchange resin;
13. Abstract of Japanese Patent JP 10059867; "Activation of Blood coagulation Factor VII-by ion exchange purification of a solution containing Factor VII;
14. M. Raida et al. "Liquid Chromatography and Electrospray Mass Spectrometric Mapping of Peptides from Human Plasma Filtrate" Journ of American Society of Mass Spectrometry. Vol. 10, pages 45-54 (1999);
15. Huskins et al., "Halibut Muscle 3-Phosphoglycerate Kinase. Chemical and Physcial Properties of the Enzyme and Its Substrate Complexes" Biochemistry, Vol. 21, pages 4180-89 (1982);
16. US 2003/0027996;
17. US Patent No. 5,344,918
18. Biomedical Research Foundation, Tokyo (1988), 9:47-51;

It is respectfully requested that these references be considered by the Patent and Trademark Office in its examination of the above-identified application and be made of record therein. The Examiner is also invited to contact the undersigned if there are any questions concerning this paper or the attached references.

The information disclosure statement submitted herewith is being filed **within** three months of the filing date of a national application or date of entry into the national stage of an international application or **before** the mailing date of a first Office action on the merits, or **before** the mailing date of a first Office action after the filing of a request for continued examination. Therefore, no fee is due. However, please charge any fees should they be required, to Novo Nordisk Inc. Deposit Account No. 14-1447.

Respectfully submitted,

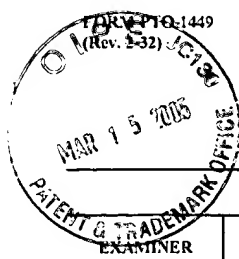
Date: March 15, 2005

  
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(609) 987-5800

**Use the following customer number for all correspondence regarding this application.**

**23650**

PATENT TRADEMARK OFFICE



U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

Atty. Docket No. **5784.210-US**

Serial No. **09/671,461**

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Applicant **Arne Staby**

(Use several sheets if necessary)

Filing Date : **September 27, 2000**

Group **1653**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,361,510	11/30/82	Gautam Mitra	260	112	02/02/82
	2003/0027996	2/6/2003	Staby	530	416	6/18/02
	5,344,918	9/6/94	Dazey et al	530	381	12/10/92

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 0 699 686 A2	03/06/96	EPO				
	EP 0 708 179 A2	04/24/96	EPO				
	WO 87/06941	11/19/87	WIPO				
	WO 90/11296	10/04/90	WIPO				

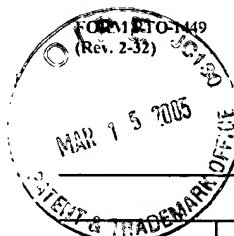
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Biomedical Research Foundation, Tokyo (1988), 9:47-51;
		Schmidt et al., "Glucagon-like peptide-1 but not glucagons-like peptide-2 stimulates insulin release from isolated rat pancreatic islets" Diabetologia, Vol. 28, pgs. 704-707 (1985);
		Kagaku et al., "Activation of Coagulation of Factor VII to VIIa Research Disclosure, pgs. 564-565 (September 1986);

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEAtty. Docket No. **5784.210-US**Serial No. **09/671,461**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTApplicant **Arne Staby**

(Use several sheets if necessary)

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 91/11457	08/08/91	WIPO				
	WO 98/08871	03/05/98	WIPO				
	WO 98/08872	03/05/98	WIPO				
	WO 96/32414	10/17/96	WIPO				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Abstract of Japanese Patent JP 10059866; "Preparation of blood coagulation factor VII and/or activated blood coagulation factor VII-by developing solution containing factor VII with anion exchange resin".
		Abstract of Japanese Patent JP 10059867; "Activation of Blood coagulation Factor VII-by ion exchange purification of a solution containing Factor VII".
		M. Raida et al. "Liquid Chromatography and Electrospray Mass Spectrometric Mapping of Peptides from Human Plasma Filtrate" Journ of American Society of Mass Spectrometry. Vol. 10, pages 45-54 (1999)
		Huskins et al., "Halibut Muscle 3-Phosphoglycerate Kinase. Chemical and Physical Properties of the Enzyme and Its Substrate Complexes" Biochemistry, Vol. 21, pages 4180-89 (1982)

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